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Total Number of Pages in This Submission

Application Number	19/662,557 <i>19/622 557</i>
Filing Date	July 18, 2003
First Named Inventor	David J. Young
Art Unit	2817
Examiner Name	Joseph Chang
Total Number of Pages in This Submission	19
Attorney Docket Number	1391-39000

### ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
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Remarks		

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	CONLEY ROSE, P.C.		
Signature	<i>Robert M. Tuttle</i>		
Printed name	Robert M. Tuttle		
Date	January 12, 2005	Reg. No.	54,504

### CERTIFICATE OF TRANSMISSION/MAILING

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Typed or printed name	Ella R. Sisco	Date	January 12, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: David J. Young et al. § Group Art Unit: 2817  
Serial No.: 10/662,557 §  
Filed: July 18, 2003 § Examiner: Joseph Chang  
For: DOWNHOLE CLOCK § Confirmation No.: 4807

**RESPONSE TO OFFICE ACTION DATED DECEMBER 13, 2004**

Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Att'y Docket No. 1391-39000  
Date: January 12, 2005

Sir:

In response to the Office Action of December 13, 2004, please amend the above-identified application as follows:

**Amendments to the Claims** are reflected in the listing of claims that begins on page 2 of this paper.

**Remarks/Arguments** begin on page 15 of this paper.